

Title (en)

BOOM MOUNTED AGRICULTURAL MACHINE VISION PERSPECTIVE CORRECTION

Title (de)

AUSLEGERMONTIERTE PERSPEKTIVISCHE SICHTKORREKTUR EINER LANDWIRTSCHAFTLICHEN ARBEITSMASCHINE

Title (fr)

CORRECTION DE PERSPECTIVE DE VISION DE MACHINE AGRICOLE MONTÉE SUR UNE PERCHE

Publication

EP 3918568 A1 20211208 (EN)

Application

EP 20748829 A 20200130

Priority

- US 201962799622 P 20190131
- IB 2020050759 W 20200130

Abstract (en)

[origin: WO2020157702A1] In an agricultural machine vision system for the selective treatment of a field employing a boom deployed sensor and treatment device, the system utilizes at least one image sensor mounted on the boom to produce base image data. A boom angle detector detects boom height which is used to correct the base image data into remapped image data including a region of interest to produce corrected image data producing a regularized image of the region of interests for treatment, independent of boom tilt.

IPC 8 full level

G06T 3/00 (2006.01); **G06V 10/147** (2022.01); **A01B 45/00** (2006.01); **A01B 79/02** (2006.01); **A01C 23/04** (2006.01); **A01G 25/09** (2006.01); **A01M 7/00** (2006.01); **G06T 5/00** (2006.01); **G06V 10/32** (2022.01)

CPC (source: AU EP US)

A01B 79/005 (2013.01 - US); **A01M 7/0089** (2013.01 - EP); **G05B 19/18** (2013.01 - AU); **G06T 5/80** (2024.01 - US); **G06T 7/70** (2017.01 - US); **G06V 10/147** (2022.01 - AU EP US); **G06V 10/242** (2022.01 - AU EP US); **G06V 10/243** (2022.01 - AU EP US); **G06V 10/32** (2022.01 - AU EP US); **G06V 20/38** (2022.01 - AU EP US); **A01B 79/005** (2013.01 - AU); **A01M 7/0042** (2013.01 - AU); **B60R 11/04** (2013.01 - AU); **G05B 2219/40424** (2013.01 - AU); **G05B 2219/40425** (2013.01 - AU); **G06V 10/247** (2022.01 - AU EP US); **H04N 23/695** (2023.01 - AU)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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WO 2020157702 A1 20200806; AU 2020213434 A1 20210603; AU 2020213434 B2 20220331; BR 112021014877 A2 20211005; CA 3125889 A1 20200806; CA 3125889 C 20231219; EP 3918568 A1 20211208; EP 3918568 A4 20221012; US 11995875 B2 20240528; US 2022076387 A1 20220310

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